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(54) An exhaust purification device of an engine

(57) An exhaust purification device of an engine providing a NO_x absorbent arranged in the exhaust passage. An O_2 sensor generating a current proportional to the air-fuel ratio is arranged in the engine exhaust passage downstream of the NO_x absorbent. The amount of NO_x actually absorbed in the NO_x absorbent at the time of release of the NO_x is calculated on the basis of the output signal of this O_2 sensor. On the basis of this calculated amount of NO_x , correction is made so that the estimated amount of NO_x represents the actual amount of absorption of NO_x . When this corrected estimated amount of NO_x reaches a set value, the action of releasing the NO_x from the NO_x absorbent is carried out.

Fig.1

